

Exhibit 23

From: Simon Phipps <Simon.Phipps@Sun.COM>
To: Opensource@Sun.COM <Opensource@Sun.COM>
Sent: 11/8/2005 3:17:00 PM
Subject: Fwd: Code contribution to harmony
Attachments: smime.p7s

IBM bootstraps Apache Harmony...

Begin forwarded message:

From: Tim Ellison <t.p.ellison@gmail.com>
Date: November 8, 2005 19:49:40 JST
To: harmony-dev <harmony-dev@incubator.apache.org>
Subject: Code contribution to harmony
Reply-To: harmony-dev@incubator.apache.org

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

I'm delighted to be able to make a code contribution to the Harmony project on behalf of IBM. The code comprises a concrete implementation of the interface between virtual machine and class library that we have been discussing recently, together with a set of core Java classes. The aim is to ground the discussion in reality and provide an opportunity for people to collaborate on enhancements and improvements to actual code. The Java classes are a subset of Java SE 1.4.2 APIs sufficient to run Ant and the Eclipse Java compiler, to provide a basic self-hosting environment. Some of the types are simply stubs to enable full recompilation of the Java code. The ZIP also includes HTML documentation for the VM interface.

I've uploaded the contribution here:

<http://issues.apache.org/jira/browse/HARMONY-14>

The expected MD5 sums are:

73ade240df20dec481806130fc8b4875 *Harmony-contribution_Part-1-of-2.zip
bc9117d9b4af113eaf5250883d1ce669 *Harmony-contribution_Part-2-of-2.zip

A number of people were involved with getting the code ready for contribution (too many to name individually!), and they have done a fine job. There is still plenty of work to do; for example, we renamed some code to "Hy", but some still has a "com.ibm" prefix. The code needs bringing up to the project goal of supporting 5.0 APIs. It is targeted at Windows and Linux on Intel 32-bit machines. Now it is everyone's code, join in!

In the meantime we are working on making a VM available for download (under a binary evaluation license) from IBM's DeveloperWorks site that implements the class library interface. By getting the VM and unzipping into the same directory you can run the contributed code and try out your changes.

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA

TRIAL EXHIBIT 7578

CASE NO. 10-03561 WHA

DATE ENTERED _____

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DEPUTY CLERK

I'll post the URL for the VM download (as soon as I know it) as a follow-up to this mail -- it could take a couple of days to organize.

Just to avoid confusion, the DeveloperWorks VM not a regular IBM JRE. It is a VM being made available to enable Harmony development and is not a contribution.

Regards,
Tim

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Tim Ellison (t.p.ellison@gmail.com)
IBM Java technology centre, UK.

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.1 (MingW32)

Comment: Using GnuPG with Thunderbird - <http://enigmail.mozdev.org>

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